Clarion

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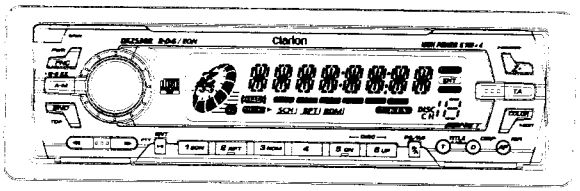
Published by Service Dept.
298-6007-00 JAN.2003P
Printed in P.R.C.

Service Manual



RDS-EON FM/MW/LW Radio CD Combination with DVD/MD/CD Changer/ DAB / TV Control

Model **DXZ538R**

(PE-2553E-A)

SPECIFICATIONS

Radio section

Tuning system:	PLL synthesizer tuner
Receiving frequencies:	FM : 87.5 to 108 MHz (0.05 MHz steps)
	MW : 531 to 1602 kHz (9 kHz steps)
	LW : 153 to 279 kHz (3 kHz steps)

CD player section

System:	Compact disc digital audio system
Frequency response:	10 Hz to 20 kHz (+1/-1 dB)
Signal to noise ratio:	100 dB (1 kHz) IHF-A
Dynamic Range:	95 dB (1 kHz)
Distortion:	0.01%

General

Output power :	27 W x 4 (DIN45324, +B=14.4 V)
Power supply voltage:	14.4 V DC (10.8 V to 15.6 V allowable), negative ground
Power consumption:	Less than 15 A
Speaker impedance:	4ohm(4ohm to 8ohm allowable)
Auto antenna rated current:	500 mA or less
Weight:	1.3 kg
Dimensions:	178(W) x 50(H) x 157(D)mm

* Specifications and design are subject to change without notice for further improvement.

NOTE

* We cannot supply PWB with component parts in principle. When a circuit on PWB has failure,please repair it by component parts base. Parts which are not mentioned in service manual are not supplied.
* CD-ROM discs cannot be played by this unit.

COMPONENTS

PE-2553E-A

Main unit	----------	1
Mounting bracket	300-7742-00	1
DCP case	335-6035-20	1
Escutcheon(OUT-ES)	370-6037-00	1
Parts bag	----------	
Removal key	331-2497-00	2
Rubber part	345-3653-20	1
Screw	716-0726-01	1
A- lead	850-6681-50	1

FEATURES

1.1-Bit D/A Converters and 8-Times Oversampling Digital Filter.
2. Flip Down Detachable Aluminum Face with 80-Varuable Color LC Display and Control Buttons.

To engineers in charge of repairor inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1.Use specified parts.

The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.

The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability(PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.

2.Place the parts and wiring back in their original p-ositions after replacement or re-wiring.

For proper circuit construction, use of insulationtubes,bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.If extended damage is caused due to negligence during repair. the legal responsibility shall be with the repairing company.

3.Check for safety after repair.

Check that the screws, parts and wires are put b-ack securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary problems around the repaired spots.

If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

4.Caution in removal and making wiring connection to the parts for the automobile.

Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

5.Cautions regarding chips.

Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.

6. Cautions in handing flexible PWB

Before working with a soldering iron, make sure that the iron tip temperature is around 270 °C. Take care not to apply the iron tip repeatedly (more than three times) to the same patterns. Also take care not to apply the tip with force.

7. Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

8.Cautions in checking that the optical pickup lights up.

The laser is focused on the disc reflection surface through the lens of the optical pickup. When checking that the laser optical diode lights up, keep your eyes more than 30cms away from the lens. Prolonged viewing of the laser within 30cms may damage your eyesight.

9.Cautions in handing the optical pickup

The laser diode of the optical pickup can be damaged by electrostatic charge caused by your clothes and body.Make sure to avoid electrostatic charges on your clothes or body, or discharge static electricity before handling the optical pickup.

9-1.Laser diode

The laser diode terminals are shorted for transportation in order to prevent electrostatic damage. After replacement, open the shorted circuit. When removing the pickup from the mechanism, short the terminals by soldering them to prevent this damage.

9-2. Actuator

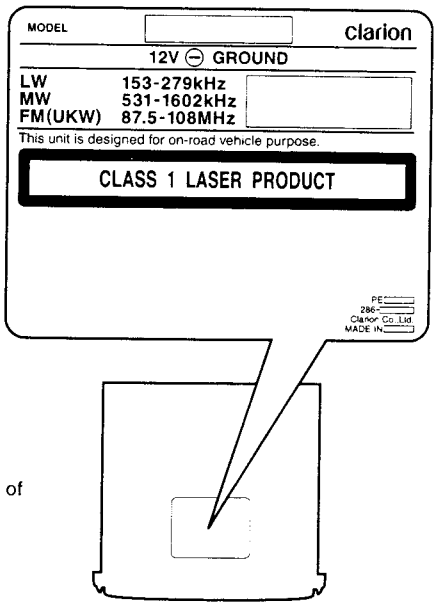
The actuator has a powerful magnetic circuit. If a magnetic material is put close to it, its characteristics will change. Ensure that no foreign substances enter through the ventilation slots in the cover.

9-3.Cleaning the lens

Dust on the optical lens affects performance. To clean the lens, apply a small amount of isopropyl alcohol to lens paper and wipe the lens gently.

CAUTIONS

This appliance contains a laser system and is classified as a "CLASS 1 LASER PRODUST". To use this model properly, read this Owner's Manual carefully and keep this manual for your future reference. In case of any trouble with this player, please contact your nearest "AUTHORIZED service station". To prevent direct exposure to the laser beam, do not try to open the enclosure.

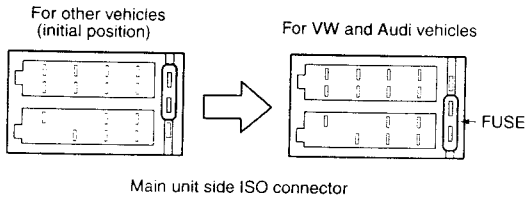


Bottom view of Main Unit

NOTES OF ISO CONNECTOR

1. For VW and Audi vehicles, change the position of fuse installation as shown on the diagram.(Figure 1)

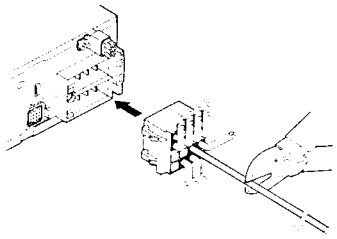
ISO CONNECTOR type



Figuer 1

2. When the car stereo is installed in 1998 and later Volkswagen models, make sure to cut the car lead wire connected the A-5 terminal. (A breakdown could occur if the lead wire is not cut.) After cutting the lead wire, insulate the front end of the lead wire with insulation tape to prevent the risk of short-circuits. (Figure 2)

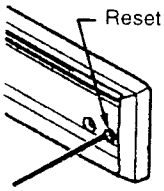
Note: Before cutting the lead wire, disconnect the car battery - (negative) cable.



Figuer 2

3. When the Main unit is also connected to an external amplifier in a wiring procedure, connect REMOTE on the external amplifier to the previously cut lead wire on the side of the connector.

TROUBLESHOOTING

Problem	Cause	Measure
Power does not turn on. (No sound is produced.)	Fuse is blown.	Replace with a fuse of the same amperage as the old fuse.
	Incorrect wiring.	Read the attached "Installation/Wire Connection Guide" once again and wire properly.
No sound output when operating the unit with amplifiers or power antenna attached.	Power antenna lead is shorted to ground or excessive current is required for remote-on the amplifiers or power antenna.	1. Turn the unit off. 2. Remove all wires attached to the power antenna lead. Check each wire for a possible short to ground using an ohm meter. 3. Turn the unit back on. 4. Reconnect each amplifier remote wire to the power antenna lead one by one. If the amplifiers turn off before all wires are attached, use an external relay to provide remote-on voltage (excessive current required.)
Nothing happens when buttons are pressed. Display is not accurate.	The microprocessor has malfunctioned due to noise, etc.	Turn off the power, then press the [OPEN] button and remove the DCP. Press the reset button for about 2 seconds with a thin rod. 
	DCP or main unit connectors are dirty.	Wipe the dirt off with a soft cloth moistened with cleaning alcohol.
Compact disc cannot be loaded.	Another compact disc is already loaded.	Eject the compact disc before loading the new one.
Sound skips or is noisy.	Compact disc is dirty.	Clean the compact disc with a soft cloth.
	Compact disc is heavily scratched or warped.	Replace with a compact disc with no scratches.
Sound is bad directly after power is turned on.	Water droplets may form on the internal lens when the car is parked in a humid place.	Let dry for about 1 hour with the power on.

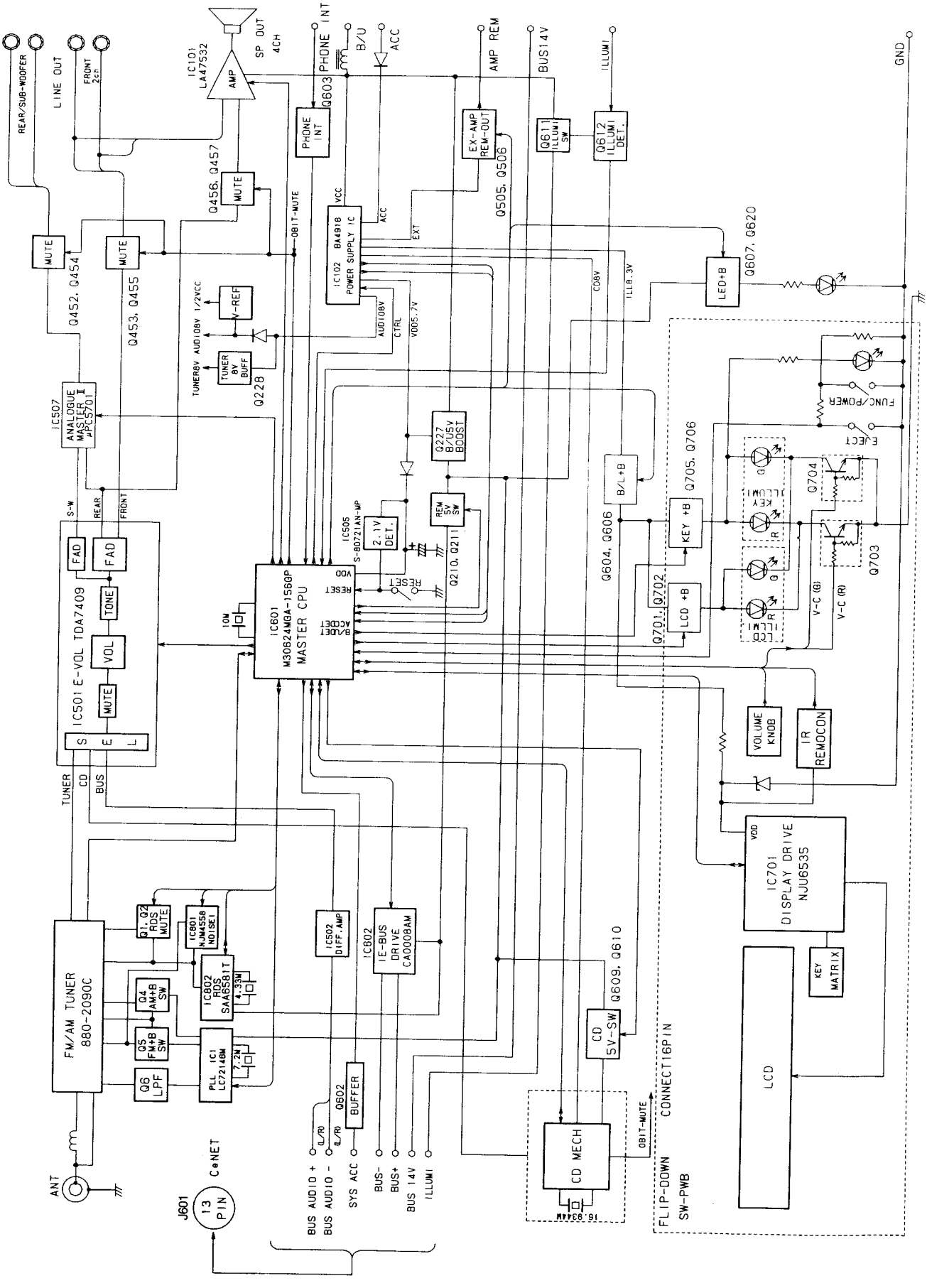
ERROR DISPLAYS

If an error occurs, one of the following displays is displayed.
Take the measures described below to eliminate the problem.

	Error Display	Cause	Measure
CD	ERROR 2	A CD is caught inside the CD deck and is not ejected.	This is a failure of CD deck's mechanism.
	ERROR 3	A CD cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
	ERROR 6	A CD is loaded upside-down inside the CD deck and does not play.	Eject the disc then reload it properly.
CD CH	ERROR 2	A CD inside the CD changer is not loaded.	This is a failure of CD changer's mechanism.
	ERROR 3	A CD inside the CD changer cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
	ERROR 6	A CD inside the CD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly.
MD CH	ERROR H	Displayed when the temperature in the MD changer is too high and playback has been stopped automatically.	Lower the surrounding temperature and wait for a while to cool off MD changer.
	ERROR 2	An MD inside the MD changer is not loaded.	This is a failure of MD changer's mechanism.
	ERROR 3	An MD inside the MD changer cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
	ERROR 6	An MD inside the MD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly.
		Displayed when a non-recorded MD is loaded in the MD changer.	Load a pre-recorded MD in the MD changer.
DVD CH	ERROR 2	A DISC inside the DVD changer cannot be played.	This is a failure of DVD mechanism.
	ERROR 3	A DISC cannot be played due to scratches, etc.	Retry or replace with a non-scratched, non-warped-disc.
	ERROR 6	A DISC inside the DVD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly.
	ERROR P	Parental level error.	Set the correct Parental level.
	ERROR R	Region code error.	Eject the disc and replace correct region code disc.

If an error display other than the ones described above appears, press the reset button.

BLOCK DIAGRAM



DXZ538R

EXPLANATION OF IC:

M30624MGA-156GP 052-3928-00 MASTER MICRO COMPUTER

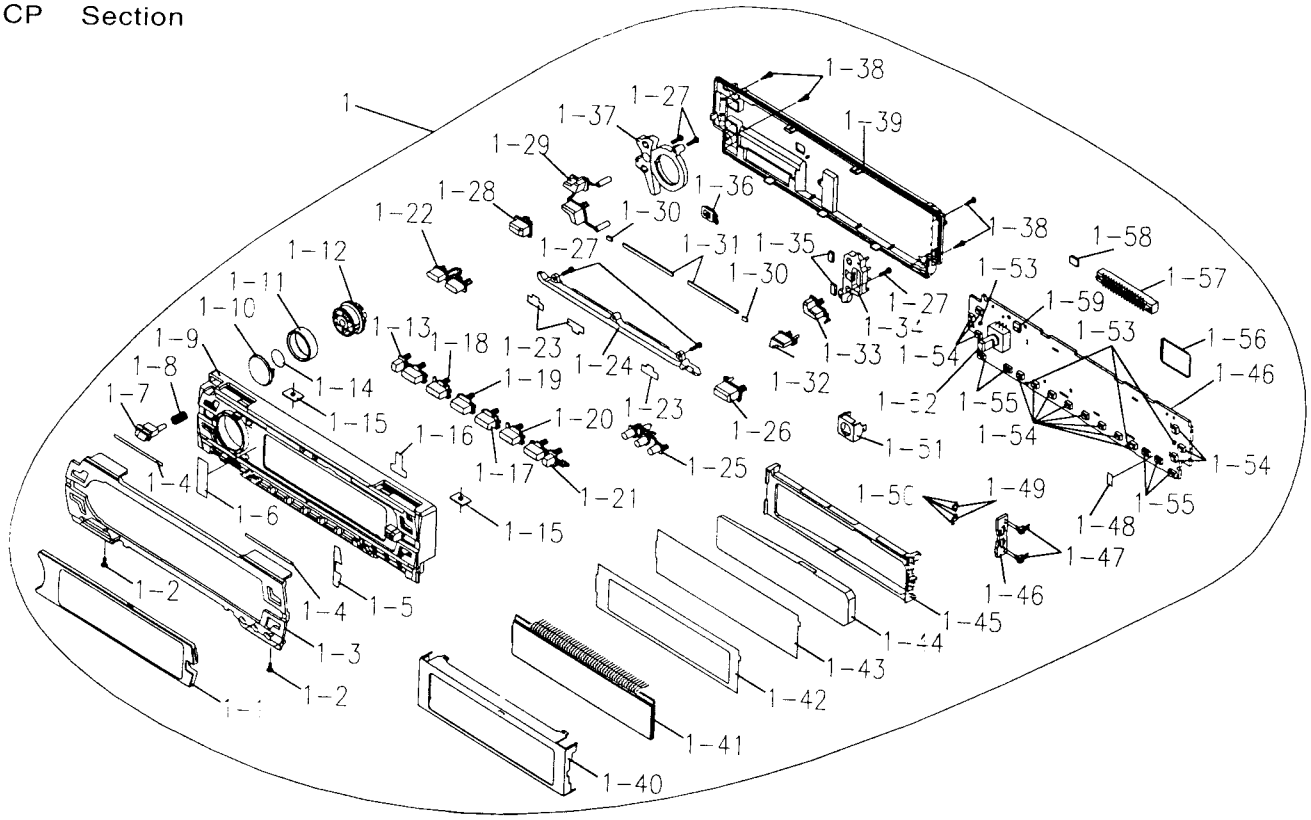
1.Outward Form : 100 pins QFP

2.Terminal Description

pin 1 : REMOCON : IN : Remote controller signal input terminal.
pin 2 : T-BASE : IN : Time base pulse input.
pin 3 : CD SBSY : IN : Sub-Q data request input from the CD IC.
pin 4 : RDS DATA : IN : RDS serial data input.
pin 5 : RDS CLK : IN : RSD clock pulse input.
pin 6 : BYTE : - : Input " L" at single mode operation.
pin 7 : CN VSS : - : Input " L" at single mode operation.
pin 8 : FM_ST/SD : IN : At receiving the FM station, this port detects the stereo signal. And at seeking or scanning, this port detects the station detection signal.
pin 9 : NC : IN : Not in use.
pin 10 : RESET : - : Reset signal input.
pin 11 : XOUT : - : Crystal connection.
pin 12 : VSS : - : Negative supply voltage.
pin 13 : X IN : - : Crystal connection.
pin 14 : VCC : - : Positive supply voltage.
pin 15 : NC : IN : Not in use.
pin 16 : ACC DET : IN : ACC detection signal input.
pin 17 : B/U DET : IN : Backup detection signal input.
pin 18 : KEY INT : IN : Key inturrupting signal input.
pin 19 : 27P CONE : IN : Connected to 27 pin.
pin 20 : B/L_ON : O : Back light ON signal output.
pin 21 : KEY_ILL_REM : O : Key illumination ON signal output.
pin 22 : BEEP : O : Not in use.
pin 23 : NC : IN : Not in use.
pin 24 : V COLOR-G : O : Variable color (GREEN) signal output.
pin 25 : EVOL DATA : O : Serial data output to the E VOL IC.
pin 26 : V COLOR-R : O : Variable color (RED) signal output.
pin 27 : IE BUS RX : IN : IE Bus serial data input.
pin 28 : IE BUS TX : O : IE Bus serial data output
pin 29 : EMU-TX : O : EMULATOR communicate line.
pin 30 : EMU-RX : IN : EMULATOR communicate line
pin 31 : FLASH MODE : IN : Connected to GND.
pin 32 : NC : O : Not in use.
pin 33 : EVOL CLK : O : Clock pulse output to the E VOL IC.
pin 34 : A-MAS 2 : O : Subwoofer output frequency control.
pin 35 : A-MAS 1 : O : Subwoofer output frequency control.
pin 36 : DISP DIM : O : Not in use.
pin 37 : CTRL : O : Power IC control.
pin 38 : SYS ACC : O : ACC detect signal output.
pin 39 : FLASH MODE : IN : Connected to GND.
pin 40 : 5V REM : O : 5V power supply ON signal output.
pin 41 : NC : O : Not in use.
pin 42 : A-REM OUT : O : Internal audio amplifier ON signal output.
pin 43 : PHONE INT : IN : Telephone interrupt signal input.
pin 44 : FLASH MODE : IN : Connected to VDD.
pin 45 : ILL DET : IN : Illumination ON signal input.
pin 46 : AMP MUTE : O : Muting signal output to the Audio Power Amplifier.
pin 47 : SYS MUTE : O : System muting signal output.
pin 48 : NAVI MUTE : O : Not in use.
pin 49 : ZMUTE CUT : O : Command pulse output to cut the CD zero cross mute signal
pin 50 : B/L+B : O : LCD display control.
pin 51 : LCD CLK : O : Serial data clock output to LCD driver.
pin 52 : LCD SO : O : Serial data output to the LCD driver.
pin 53 : LCD SI : IN : Serial data input from the LCD driver.
pin 54 : LCD CE : O : The chip enable serial output to the LCD driver.
pin 55 : JOGA(CW) : IN : JOG pulse input.
pin 56 : JOGB(CCW) : IN : JOG pulse input.
pin 57 : INIT1 : IN : Not in use.
pin 58 : INIT2 : IN : Not in use.
pin 59 : INIT3 : IN : Model distinguish.
pin 60 : VDD : - : Positive supply voltage.
pin 61 : INIT4 : IN : Model distinguish.
pin 62 : GND : - : Connect to GND.
pin 63 : OFFSET DET : O : Speaker distroied protect.
pin 64 : NC : IN : Not in use.
pin 65 : NC : IN : Not in use.
pin 66 : NC : IN : Not in use.
pin 67 : NC : IN : Not in use.
pin 68 : NC : IN : Not in use.
pin 69 : NC : IN : Not in use.
pin 70 : NC : IN : Not in use.
pin 71 : NC : IN : Not in use.
pin 72 : NC : IN : Not in use.
pin 73 : LD MUTE : O : Connected to CD MECHA
pin 74 : LD CON : I/O : Connected to CD MECHA
pin 75 : TR-A : IN : Photo sensor signal input from the CD MECHA.
pin 76 : TR-B : IN : Photo sensor signal input from the CD MECHA.
pin 77 : CHU SW : IN : Connected to CD MECHA.
pin 78 : SSTOP : IN : Connected to CD MECHA.
pin 79 : CD RESET : O : The reset pulse output to the CD IC.
pin 80 : CCE : O : Chip enable signal output.
pin 81 : BUCK : O : Clock pulse output to the CD IC.
pin 82 : BUS3 : I/O : Communication line with the CD IC.
pin 83 : BUS2 : I/O : Communication line with the CD IC.
pin 84 : BUS1 : I/O : Communication line with the CD IC.
pin 85 : BUS0 : I/O : Communication line with the CD IC.
pin 86 : CD 5V : O : Power supply control signal output for the CD IC/DAC IC. " H" =ON.
pin 87 : PLL_CLK : O : Clock pulse output to the PLL IC.
pin 88 : PLL_SI : IN : Serial data input from the PLL IC.
pin 89 : PLL_SO : O : Serial data output to the PLL IC.
pin 90 : PLL_CE : O : The chip enable signal output to the PLL IC.
pin 91 : RDS_TEST_ST : O : Outputting " H" without the test mode.
pin 92 : S-METER : IN : The input terminal of internal A/D converter to monitor the radio field strength.
pin 93 : NOISE 1 : IN : Input terminal of internal ADC to sense the RDS-noise-level.
pin 94 : GND : - : Connected to GND.
pin 95 : KEY A/D : IN : Input terminal of A/D converter for Key judgment.
pin 96 : VREF : - : Reference voltage.
pin 97 : A VDD : - : Positive supply voltage for the Analog section.
pin 98 : MUTE_SPEED_UP : O : Station detection speed up command output fo RDS.
pin 99 : RDS_MUTE : O : RDS mute signal output.
pin100 : RDS_DCHG : O : RDS dis-charge signal output.

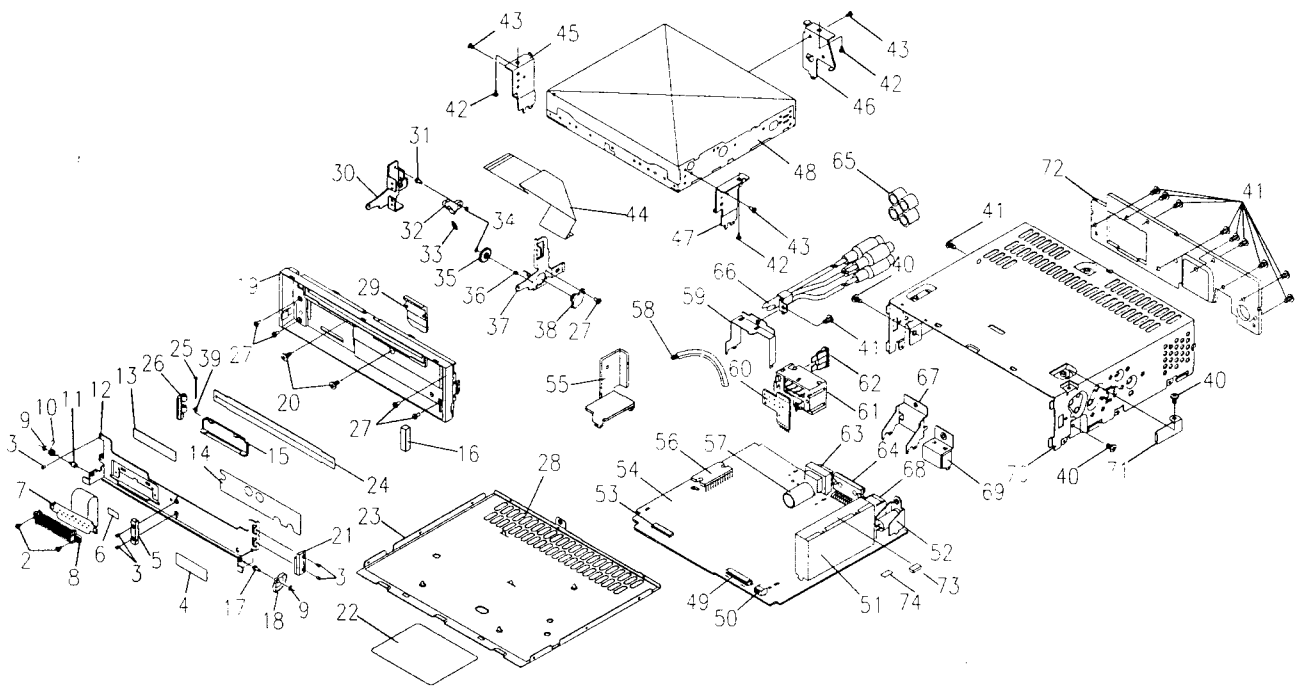
EXPLODED VIEW . PARTS LIST:

DCP Section



NO.	PART NO.	DESCRIPTION	Q'TY
1	DCP-439-700	DCP ASSY	1
1-1	373-1001-01	DIAL CVR	1
1-2	716-3443-01	SPECIAL SCREW	2
1-3	371-5736-07	FACE PANCEL	1
1-4	347-6980-00	DOUDLE FACE	2
1-5	347-6979-00	DOUDLE FACE	1
1-6	347-6978-00	DOUDLE FACE	1
1-7	382-6628-00	BUTTON	1
1-8	750-6720-00	SPRING	1
1-9	370-6030-00	ESCUTCHEON	1
1-10	380-5553-00	KNOB	1
1-11	345-5228-00	RUBBER RING	1
1-12	380-5555-00	INNER KNOB	1
1-13	382-6620-00	BUTTON	1
1-14	347-6988-00	DOUBLE FACE	1
1-15	331-3576-00	SCREW PLATE	2
1-16	347-6987-00	SURGE FILM	1
1-17	382-6623-00	BUTTON	1
1-18	382-6621-00	BUTTON	1
1-19	382-6622-00	BUTTON	1
1-20	382-6679-00	BUTTON	1
1-21	382-6680-00	BUTTON	1
1-22	382-6619-00	BUTTON	1
1-23	347-6981-00	SHADE	3
1-24	335-6975-00	ILLUMI PLATE	1
1-25	382-6624-01	BUTTON	1
1-26	382-6626-00	BUTTON	1
1-27	716-0872-01	PAD SCREW(M1.7x8)	5
1-28	382-6618-00	BUTTON	1
1-29	382-6616-00	BUTTON	1
1-30	345-5308-00	CUSHION	2

NO.	PART NO.	DESCRIPTION	Q'TY
1-31	345-5307-00	CUSHION	2
1-32	382-6650-00	BUTTON	1
1-33	382-6617-00	BUTTON	1
1-34	335-6900-00	ILLUMI PLATE	1
1-35	345-5316-00	CUSHION	2
1-36	382-6109-00	BUTTON	1
1-37	335-6912-00	ILLUMI PLATE	1
1-38	716-0872-12	PAD SCREW	4
1-39	335-6899-00	REAR-CVR	1
1-40	331-3574-00	LCD-CVR	1
1-41	379-1261-41	INDICATOR	1
1-42	347-6984-00	FILM	1
1-43	347-6985-00	FILM	1
1-44	335-6880-00	ILLUMI PLATE	1
1-45	335-6894-00	LCD HOLDER	1
1-46	039-2292-00	SWITCH PWB (WITHOUT COMPONENT)	1
1-47	076-0708-02	PLUG	2
1-48	001-7062-93	DIODE	4
1-49	001-7040-92	DIODE	2
1-50	331-3337-00	VR-HOLDER	1
1-51	347-7016-00	DOUDLE FACE	1
1-52	016-9900-84	VR W/SHAFT	1
1-53	001-7071-90	DIODE	4
1-54	013-6312-50	SWITCH	14
1-55	013-6507-50	SWITCH	5
1-56	051-6066-00	IC	1
1-57	076-0647-00	PLUG	1
1-58	013-6511-50	EJECT SWITCH	1
1-59	060-4017-90	IR-RECEIVE	1



NO.	PART NO.	DESCRIPTION	Q'TY
2	716-3444-00	SCREW	2
3	738-1722-17	PRECISION SCREW(M1.7x2.2)	5
4	291-0092-00	STICKER	1
5	335-6502-00	SLIDER	1
6	347-6356-00	DOUBLE FACE	1
7	039-1862-01	FPC	1
8	074-1278-01	OUTLET SOKET	1
9	743-1500-10	E-RING	2
10	750-3342-21	SPRING	1
11	341-1793-00	SHAFT	1
12	331-3565-00	DCP HOLDER	1
13	347-7008-00	FPC SUPPORT	1
14	290-7995-00	LABEL	1
15	335-6499-00	CN-CVR	1
16	345-8607-00	CUSHION	1

NO.	PART NO.	DESCRIPTION	Q'TY
17	341-1794-00	SHAFT	1
18	613-0684-00	FAN GEAR	1
19	370-6025-00	ESCUTCHEON(I)	1
20	780-2607-02	M-SCREW(M2.6x7)	2
21	335-6500-01	HOOK	1
22	286-6161-00	SETPLATE	1
23	311-1859-02	LOWER CASE	1
24	346-0097-00	LEATHER SHEET	1
25	341-1764-00	SHAFT	1
26	335-6501-01	HOOK DCP	1
27	780-2004-01	SCREW	5
28	347-6880-00	INSULATOR	1
29	335-6886-00	ILLUMI PLATE	1
30	331-3564-00	ARM-L	1
31	341-1792-00	SHAFT	1

NO.	PART NO.	DESCRIPTION	Q'TY
32	335-6887-00	HOOK LOCK	1
33	750-3341-00	SPRING	1
34	746-0761-00	SPECIAL WASHER	2
35	613-0683-00	GEAR	1
36	341-1685-00	SHAFT	1
37	331-3563-00	ARM-R	1
38	613-0730-00	GEAR DAMPER	1
39	750-3454-00	SPRING	1
40	731-3006-80	TAPTIGHT(M3x6)	3
41	714-3006-81	MACHINE SCREW(M3x6)	11
42	714-3004-81	MACHINE SCREW(M3x4)	3
43	714-2603-80	MACHINE SCREW(M2.6x3)	3
44	816-2627-50	FALT WIRE	1
45	331-3570-00	MECH-SUB-BRKT	1
46	331-3427-00	MECH BRKT	1
47	331-3569-00	MECH-SUB-BRKT	1
48	929-0221-80	CD-MECH-MODULE	1
49	074-1237-76	OUTLET SOCKET	1
50	013-6103-00	TACT SWITCH	1
51	880-2090C	TUNER	1
52	092-4000-51	ANT-RECEPT	1
53	074-1318-68	OUTLET SOCKET	1

NO.	PART NO.	DESCRIPTION	Q'TY
54	039-2294-00	MAIN PWB (WITHOUT COMPONENT)	1
55	313-1867-00	HEAT SINK	1
56	051-3297-10	IC	1
57	042-0447-00	ALUMI-ELE-C	1
58	321-1036-00	CLAMP	1
59	331-3562-01	CONNECTOR-HOLD	1
60	039-1400-30	ISO PWB	1
61	074-1285-00	OUTLET SOCKET	1
62	060-0057-57	AUTO FUSE	1
63	009-9006-60	CHOKE	1
64	051-2050-00	IC	1
65	345-3799-20	RUBBER PART	4
66	855-5428-50	RCA-PIN-CORD	1
67	331-3560-01	IC HOLDER	1
68	074-1194-00	OUTLET SOCKET	1
69	331-3567-00	CONNECTOR HOLD	1
70	303-0485-01	UPPER CASE	1
71	331-2744-00	STOPPER	1
72	313-1866-00	HEAT SINK	1
73	345-5312-00	SPECIAL CUSHION	1
74	347-6341-00	E-SHEET	1

ELECTRICAL PARTS LIST

Main PWB section (B1)

REF No.	PART No.	DESCRIPTION
IC 1	051-6201-90	LC72146M
IC 101	051-2050-00	LA47532
IC 102	051-3297-10	BA4916-V2
IC 501	051-5028-90	TDA7409
IC 502	051-0350-93	NJM4558M
IC 505	051-5437-08	S-80821CNMC
IC 507	051-5830-90	UPC5701GR
IC 601	052-3928-00	M30624MGA-156GP
IC 602	051-6600-38	CA0008AM
IC 801	051-0350-93	NJM4558M
IC 802	051-4607-90	SAA6581T
Q 1	125-4012-90	KTD1304
Q 2	125-0199-93	KRA103S
Q 3	125-2199-93	KRC103S
Q 4	125-3004-90	KTA1504S
Q 5	125-3004-90	KTA1504S
Q 6	198-0669-00	2SK669
Q 210	125-0200-96	KRA226S
Q 211	125-2199-96	KRC106S
Q 227	193-1802-61	2SD1802
Q 228	125-4011-90	KTD863
Q 452	125-4012-90	KTD1304
Q 453	125-4012-90	KTD1304
Q 454	125-4012-90	KTD1304
Q 455	125-4012-90	KTD1304
Q 456	125-4012-90	KTD1304
Q 457	125-4012-90	KTD1304
Q 501	125-2199-96	KRC106S
Q 502	125-0199-96	KRA106S
Q 503	125-4010-90	KTC3875S
Q 505	125-3005-90	KTA1273
Q 506	125-2199-96	KRC106S
Q 507	125-2199-93	KRC103S
Q 508	125-0199-96	KRA106S
Q 602	125-2199-93	KRC103S
Q 603	125-3004-90	KTA1504S
Q 604	125-3004-90	KTA1504S
Q 606	125-2199-93	KRC103S
Q 607	125-0199-96	KRA106S
Q 609	125-3007-90	KTA1298
Q 610	125-2199-93	KRC103S
Q 611	125-3004-90	KTA1504S
Q 612	125-4010-90	KTC3875S
Q 620	125-2199-93	KRC103S
Q 801	125-2199-92	KRC102S
D 102	001-0466-90	S5688B
D 103	001-0466-90	S5688B
D 104	001-0466-90	S5688B
D 105	001-0466-90	S5688B
D 106	001-0466-90	S5688B
D 107	001-0466-90	S5688B

REF No.	PART No.	DESCRIPTION
D 108	001-0466-90	S5688B
D 109	001-0466-90	S5688B
D 110	001-0347-41	MA4075M
D 201	001-0466-90	S5688B
D 202	001-0516-90	MA111
D 203	001-0592-00	RM4Z
D 204	001-0466-90	S5688B
D 205	001-0516-90	MA111
D 221	001-0516-90	MA111
D 225	001-0466-91	S5688G
D 501	001-0516-90	MA111
D 502	001-0516-90	MA111
D 503	001-0347-23	MA4043M
D 601	001-7062-90	DIODE
D 603	001-0516-90	MA111
D 606	001-0516-90	MA111
D 610	001-0516-90	MA111
D 611	001-0516-90	MA111
D 801	001-0516-90	MA111
D 802	001-0516-90	MA111
L 1	010-2003-04	COIL
L 2	010-2230-88	220uH
L 3	010-2285-56	BLM21B222S
L 4	010-2285-56	BLM21B222S
L 401	010-2285-56	BLM21B222S
L 402	010-2285-56	BLM21B222S
L 403	010-2285-56	BLM21B222S
L 404	010-2285-56	BLM21B222S
L 500	010-2230-88	220uH
L 601	010-3100-66	2.2uH
L 602	010-3100-66	2.2uH
L 603	010-3100-66	2.2uH
L 604	010-3100-66	2.2uH
L 605	010-3100-66	2.2uH
L 801	010-2230-88	220uH
X 1	061-1066-00	7.2MHZ
X 601	060-1505-50	10MHZ
X 801	061-3013-00	4.33MHZ
C 1	166-2096-50	50V 2pF
C 2	166-2201-50	50V 22pF
C 3	166-2201-50	50V 22pF
C 4	168-1032-55	50V 0.01uF
C 5	168-2232-55	25V 0.022uF
C 6	168-2232-55	25V 0.022uF
C 8	182-4753-57	35V 4.7uF
C 9	168-1032-55	50V 0.01uF
C 10	168-1022-55	50V 1000pF
C 11	182-1053-67	50V 1uF
C 12	168-3332-78	25V 0.033uF
C 13	168-1832-55	25V 0.018uF
C 14	168-1832-55	25V 0.018uF
C 17	182-4763-35	16V 47uF

REF No.	PART No.	DESCRIPTION
C 18	168-2232-55	25V 0.022uF
C 19	168-2232-55	25V 0.022uF
C 21	182-1073-35	16V 100uF
C 22	182-4763-35	16V 47uF
C 23	168-1222-55	50V 1200pF
C 24	168-1045-56	50V 0.1uF
C 25	182-1053-67	50V 1uF
C 26	168-8222-55	50V 8200pF
C 27	182-4763-19	6.3V 47uF
C 28	168-1032-55	50V 0.01uF
C 29	166-1011-50	50V 100pF
C 30	166-1011-50	50V 100pF
C 31	166-3311-50	50V 330pF
C 32	166-1501-50	50V 15pF
C 33	166-1801-50	50V 18pF
C 36	168-1032-55	50V 0.01uF
C 41	168-1022-55	50V 1000pF
C 42	166-1011-50	50V 100pF
C 44	166-1011-50	50V 100pF
C 102	178-2242-78	25V 0.22uF
C 103	178-2242-78	25V 0.22uF
C 104	178-2242-78	25V 0.22uF
C 105	178-2242-78	25V 0.22uF
C 106	182-4763-39	16V 47uF
C 107	182-2263-37	16V 22uF
C 108	172-2231-15	50V 0.022uF
C 109	182-2253-67	50V 2.2uF
C 118	166-1011-50	50V 100pF
C 119	166-1011-50	50V 100pF
C 120	166-4711-50	50V 470pF
C 121	166-4711-50	50V 470pF
C 122	166-4711-50	50V 470pF
C 123	166-4711-50	50V 470pF
C 124	166-4711-50	50V 470pF
C 125	166-4711-50	50V 470pF
C 126	166-4711-50	50V 470pF
C 127	166-4711-50	50V 470pF
C 128	166-1011-50	50V 100pF
C 129	166-1011-50	50V 100pF
C 130	172-3331-15	50V 0.033uF
C 131	172-3331-15	50V 0.033uF
C 132	172-3331-15	50V 0.033uF
C 133	172-3331-15	50V 0.033uF
C 134	172-3331-15	50V 0.033uF
C 135	172-3331-15	50V 0.033uF
C 136	172-3331-15	50V 0.033uF
C 137	172-3331-15	50V 0.033uF
C 140	182-2256-55	35V 2.2uF
C 141	182-2256-55	35V 2.2uF
C 142	182-2256-55	35V 2.2uF
C 143	182-2256-55	35V 2.2uF
C 210	182-2263-17	6.3V 22uF

REF No.	PART No.	DESCRIPTION
C 214	042-0447-00	16V 2200uF
C 222	182-4763-39	16V 47uF
C 223	172-2231-15	50V 0.022uF
C 224	182-2263-37	16V 22uF
C 225	182-1073-39	16V 100uF
C 227	182-1063-37	16V 10uF
C 228	182-4763-39	16V 47uF
C 229	182-1063-37	16V 10uF
C 230	173-1021-18	50V 1000pF
C 243	182-1073-29	10V 100uF
C 244	182-1073-17	6.3V 100uF
C 245	168-1032-55	50V 0.01uF
C 246	168-1032-55	50V 0.01uF
C 458	182-2263-17	6.3V 22uF
C 459	182-2263-17	6.3V 22uF
C 460	182-2263-17	6.3V 22uF
C 461	182-2263-17	6.3V 22uF
C 462	182-2263-17	6.3V 22uF
C 463	182-2263-17	6.3V 22uF
C 500	182-1053-67	50V 1uF
C 501	182-1053-67	50V 1uF
C 502	182-1053-67	50V 1uF
C 503	182-1053-67	50V 1uF
C 504	182-1063-37	16V 10uF
C 505	182-1063-37	16V 10uF
C 506	182-1063-37	16V 10uF
C 507	182-1063-37	16V 10uF
C 512	182-4763-19	16V 10uF
C 514	182-1063-37	16V 10uF
C 515	182-4763-39	16V 10uF
C 516	168-1045-56	25V 0.1uF
C 517	168-4722-55	50V 4700pF
C 518	168-4722-55	50V 4700pF
C 519	182-1053-67	50V 1uF
C 520	182-1053-67	50V 1uF
C 534	168-1032-55	50V 0.01uF
C 535	168-1032-55	50V 0.01uF
C 536	168-1032-55	50V 0.01uF
C 537	168-1032-55	50V 0.01uF
C 538	182-1073-29	10V 100uF
C 541	184-2273-22	10V 220uF
C 542	168-1045-56	25V 0.1uF
C 543	166-1011-50	50V 100pF
C 544	166-1011-50	50V 100pF
C 545	166-1011-50	50V 100pF
C 546	166-1011-50	50V 100pF
C 601	042-0650-00	5.5V 0.1F
C 612	168-4732-78	25V 0.047uF
C 614	168-1032-55	50V 0.01uF
C 615	042-0577-00	6.3V 100uF
C 616	183-1063-37	16V 10uF
C 617	182-2263-37	16V 22uF

REF No.	PART No.	DESCRIPTION
C 618	166-1011-50	50V 100pF
C 622	166-1011-50	50V 100pF
C 624	166-1011-50	50V 100pF
C 625	166-1011-50	50V 100pF
C 801	168-2232-55	25V 0.022uF
C 802	166-8211-50	50V 820pF
C 803	166-6811-50	50V 680pF
C 804	168-1032-55	50V 0.01uF
C 805	168-2232-55	25V 0.022uF
C 806	182-2253-67	50V 2.2uF
C 807	166-3311-50	50V 330pF
C 808	166-4701-50	50V 47pF
C 809	166-5601-50	50V 56pF
C 810	166-5611-50	50V 560pF
C 811	182-4763-17	6.3V 47uF
C 812	168-1045-56	25V 0.1uF
R 3	119-2221-15	1/16W 2.2Kohm
R 4	119-1021-15	1/16W 1Kohm
R 5	119-3311-15	1/16W 330ohm
R 6	119-4721-15	1/16W 4.7Kohm
R 7	119-5621-15	1/16W 5.6Kohm
R 8	119-1021-15	1/16W 1Kohm
R 9	119-1031-15	1/16W 10Kohm
R 10	116-3311-15	1/4WS 330ohm
R 11	119-1031-15	1/16W 10Kohm
R 12	119-2221-15	1/16W 2.2Kohm
R 13	119-5631-15	1/16W 56Kohm
R 14	119-1031-15	1/16W 10Kohm
R 15	119-1031-15	1/16W 10Kohm
R 16	119-1231-15	1/16W 12Kohm
R 17	119-5631-15	1/16W 56Kohm
R 18	119-1521-15	1/16W 1.5Kohm
R 19	119-1521-15	1/16W 1.5Kohm
R 20	119-1021-15	1/16W 1Kohm
R 21	119-2711-15	1/16W 270ohm
R 22	119-1041-15	1/16W 100Kohm
R 23	119-1031-15	1/16W 10Kohm
R 24	119-1021-15	1/16W 1Kohm
R 25	119-1021-15	1/16W 1Kohm
R 26	119-8211-15	1/16W 820ohm
R 101	119-1231-15	1/16W 12Kohm
R 102	119-1031-15	1/16W 10Kohm
R 105	119-1021-15	1/16W 1Kohm
R 106	119-3311-15	1/16W 330ohm
R 107	119-3311-15	1/16W 330ohm
R 108	119-3311-15	1/16W 330ohm
R 109	119-3311-15	1/16W 330ohm
R 130	116-2291-15	1/4WS 2.2ohm
R 131	116-2291-15	1/4WS 2.2ohm
R 132	116-2291-15	1/4WS 2.2ohm
R 133	116-2291-15	1/4WS 2.2ohm
R 134	116-2291-15	1/4WS 2.2ohm

REF No.	PART No.	DESCRIPTION
R 135	116-2291-15	1/4WS 2.2ohm
R 136	116-2291-15	1/4WS 2.2ohm
R 137	116-2291-15	1/4WS 2.2ohm
R 204	119-3321-15	1/16W 3.3Kohm
R 205	119-1831-15	1/16W 18Kohm
R 207	119-1231-15	1/16W 12Kohm
R 208	119-1011-15	1/16W 100ohm
R 209	119-3311-15	1/16W 330ohm
R 210	119-1031-15	1/16W 10Kohm
R 211	119-2741-15	1/16W 270Kohm
R 252	116-1521-15	1/4WS 1.5Kohm
R 470	119-4721-15	1/16W 4.7Kohm
R 471	119-4721-15	1/16W 4.7Kohm
R 472	119-4721-15	1/16W 4.7Kohm
R 473	119-4721-15	1/16W 4.7Kohm
R 474	119-2231-15	1/16W 22Kohm
R 475	119-2231-15	1/16W 22Kohm
R 476	119-3311-15	1/16W 330ohm
R 477	119-3311-15	1/16W 330ohm
R 478	119-3311-15	1/16W 330ohm
R 479	119-3311-15	1/16W 330ohm
R 480	119-1021-15	1/16W 1Kohm
R 481	119-1021-15	1/16W 1Kohm
R 482	119-1021-15	1/16W 1Kohm
R 490	119-3311-15	1/16W 330ohm
R 491	119-3311-15	1/16W 330ohm
R 501	032-0140-58	1/10W 51Kohm(F)
R 502	032-0140-58	1/10W 51Kohm(F)
R 503	032-0140-58	1/10W 51Kohm(F)
R 504	032-0140-58	1/10W 51Kohm(F)
R 505	032-0140-51	1/10W 15Kohm(F)
R 506	032-0140-51	1/10W 15Kohm(F)
R 507	032-0140-51	1/10W 15Kohm(F)
R 508	032-0140-51	1/10W 15Kohm(F)
R 509	119-3311-15	1/16W 330ohm
R 530	119-3931-15	1/16W 39Kohm
R 531	119-4721-15	1/16W 4.7Kohm
R 532	119-4721-15	1/16W 4.7Kohm
R 537	119-8221-15	1/16W 8.2Kohm
R 538	119-3321-15	1/16W 3.3Kohm
R 540	119-2231-15	1/16W 22Kohm
R 541	119-1021-15	1/16W 1Kohm
R 551	119-4721-15	1/16W 4.7Kohm
R 553	119-4721-15	1/16W 4.7Kohm
R 554	119-1011-15	1/16W 100ohm
R 555	119-1011-15	1/16W 100ohm
R 556	119-1011-15	1/16W 100ohm
R 557	119-1011-15	1/16W 100ohm
R 601	119-2711-15	1/16W 270ohm
R 603	116-6801-15	1/4WS 68ohm
R 604	119-3321-15	1/16W 3.3Kohm
R 607	119-2231-15	1/16W 22Kohm

REF No.	PART No.	DESCRIPTION
R 608	119-1031-15	1/16W 10Kohm
R 609	119-4731-15	1/16W 47Kohm
R 610	119-4721-15	1/16W 4.7Kohm
R 611	119-1041-15	1/16W 100Kohm
R 612	119-1041-15	1/16W 100Kohm
R 613	119-4731-15	1/16W 47Kohm
R 614	119-4731-15	1/16W 47Kohm
R 615	119-1031-15	1/16W 10Kohm
R 616	119-4711-15	1/16W 470ohm
R 619	119-3311-15	1/16W 330ohm
R 620	119-1031-15	1/16W 10Kohm
R 621	116-1221-15	1/4WS 1.2Kohm
R 623	119-1521-15	1/16W 1.5Kohm
R 634	119-1031-15	1/16W 10Kohm
R 635	119-1221-15	1/16W 1.2Kohm
R 642	119-1031-15	1/16W 10Kohm
R 643	119-5621-15	1/16W 5.6Kohm

REF No.	PART No.	DESCRIPTION
R 652	119-1811-15	1/16W 180ohm
R 653	119-1811-15	1/16W 180ohm
R 654	119-1811-15	1/16W 180ohm
R 657	119-1811-15	1/16W 180ohm
R 658	119-1521-15	1/16W 1.5Kohm
R 659	119-4731-15	1/16W 47Kohm
R 660	119-1531-15	1/16W 15Kohm
R 661	119-4731-15	1/16W 47Kohm
R 662	119-2221-15	1/16W 2.2Kohm
R 663	119-1031-15	1/16W 10Kohm
R 664	119-2221-15	1/16W 2.2Kohm
R 665	119-1021-15	1/16W 1Kohm
R 666	119-1021-15	1/16W 1Kohm
R 670	119-4731-15	1/16W 47Kohm
R 690	119-4721-15	1/16W 4.7Kohm
R 691	119-4721-15	1/16W 4.7Kohm
R 697	119-1031-15	1/16W 10Kohm

REF No.	PART No.	DESCRIPTION
R 698	119-1021-15	1/16W 1Kohm
R 699	119-1021-15	1/16W 1Kohm
R 801	119-3331-15	1/16W 33Kohm
R 802	119-1031-15	1/16W 10Kohm
R 803	119-1041-15	1/16W 100Kohm
R 804	119-2211-15	1/16W 220ohm
R 805	119-1231-15	1/16W 12Kohm
R 806	119-3321-15	1/16W 3.3Kohm
SUP 1	060-0122-91	DSP141N
J 601	074-1194-00	OUTLET SOCKET
J 602	074-1237-76	OUTLET SOCKET
J 603	074-1318-68	OUTLET SOCKET
S 601	013-6103-00	SWITCH
T 101	009-9006-60	CHOKE
VR 101	012-4431-13	470Kohm

Switch PWB section (B2)

REF No.	PART No.	DESCRIPTION
C 701	051-6066-00	NJU6535
Q 701	125-3004-90	KTA1504S
Q 702	125-4010-90	KTC3875S
Q 703	125-4010-90	KTC3875S
Q 704	125-4010-90	KTC3875S
Q 705	125-4010-90	KTC3875S
Q 706	125-3004-90	KTA1504S
D 701	001-7062-93	DIODE
D 702	001-7062-93	DIODE
D 703	001-7062-93	DIODE
D 704	001-7062-93	DIODE
D 705	001-7040-92	DIODE
D 706	001-7040-92	DIODE
D 709	001-7071-90	DIODE
D 710	001-7071-90	DIODE
D 711	001-7071-90	DIODE
D 712	001-7071-90	DIODE
D 716	001-0529-41	MA8075M
D 717	001-0529-41	MA8075M
D 718	001-0529-41	MA8075M
D 719	001-0529-41	MA8075M
D 720	001-0529-29	MA8051M
C 701	168-4732-78	25V 0.047uF
C 702	168-4732-78	25V 0.047uF
C 703	168-4732-78	25V 0.047uF
C 704	042-0416-52	10V 10uF TAN
C 705	042-0416-52	10V 10uF TAN

REF No.	PART No.	DESCRIPTION
R 702	119-1011-15	1/16W 100ohm
R 703	119-1021-15	1/16W 1Kohm
R 704	119-3311-15	1/16W 330ohm
R 705	119-1041-15	1/16W 100Kohm
R 706	119-3921-15	1/16W 3.9Kohm
R 707	119-1811-15	1/16W 180ohm
R 708	119-1811-15	1/16W 180ohm
R 709	119-1211-15	1/16W 120ohm
R 711	119-3911-15	1/16W 390ohm
R 712	119-3911-15	1/16W 390ohm
R 713	119-1011-15	1/16W 100ohm
R 714	119-1011-15	1/16W 100ohm
R 715	119-2221-15	1/16W 2.2ohm
R 716	119-1031-15	1/16W 10Kohm
R 717	119-4711-15	1/16W 470ohm
R 719	119-1031-15	1/16W 10Kohm
R 720	119-1031-15	1/16W 10Kohm
R 721	119-2221-15	1/16W 2.2Kohm
R 722	119-1031-15	1/16W 10Kohm
R 723	119-2221-15	1/16W 2.2Kohm
R 724	119-1031-15	1/16W 10Kohm
R 725	119-1031-15	1/16W 10Kohm
R 726	119-1031-15	1/16W 10Kohm
R 727	119-1031-15	1/16W 10Kohm
R 728	119-2221-15	1/16W 2.2Kohm
R 729	119-1021-15	1/16W 1Kohm
R 730	119-1021-15	1/16W 1Kohm

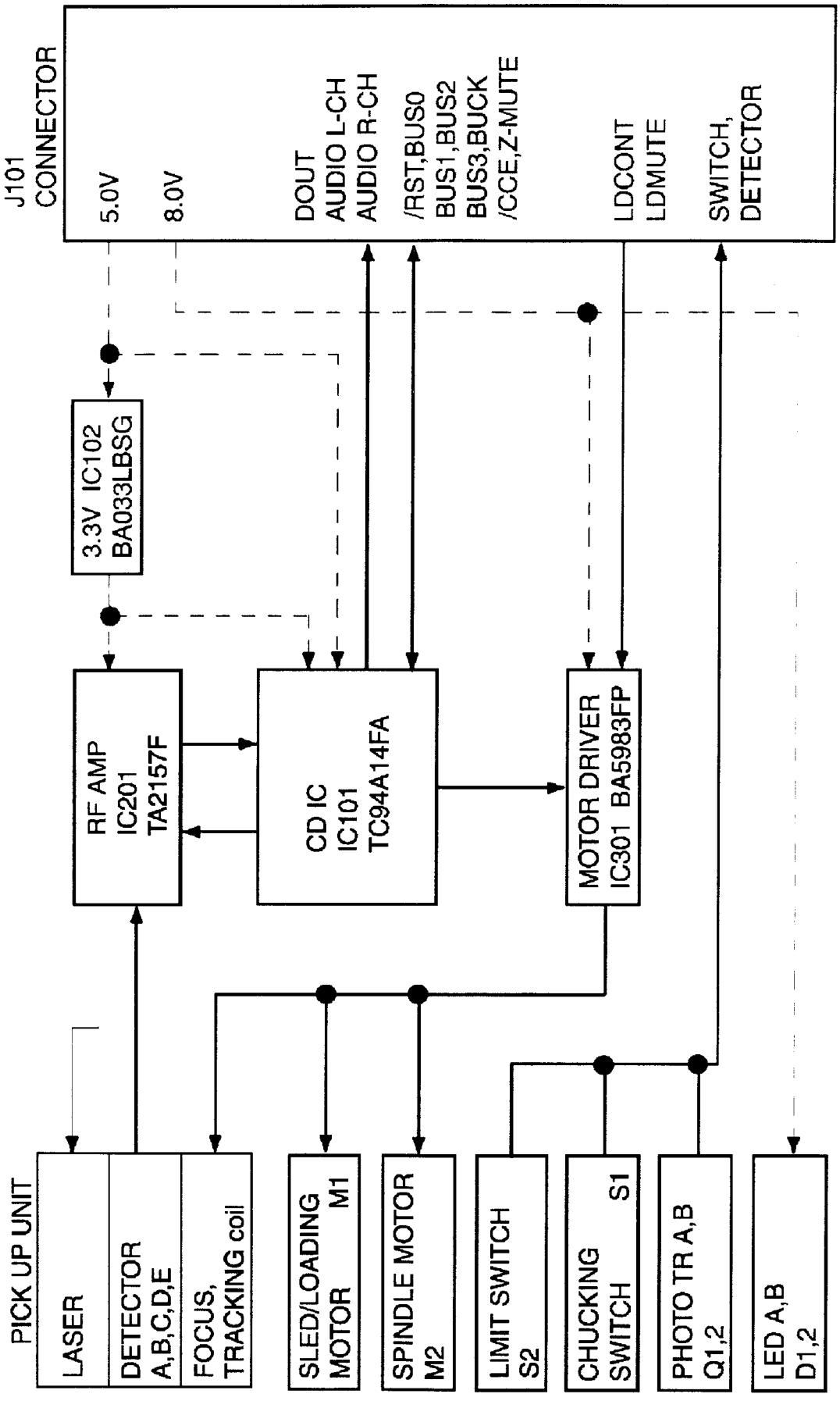
REF No.	PART No.	DESCRIPTION
R 731	119-1021-15	1/16W 1Kohm
R 732	119-1021-15	1/16W 1Kohm
VR 720	016-9900-84	SHAFT
CN 701	076-0647-00	PLUG
S 701	013-6312-50	SWITCH
S 702	013-6312-50	SWITCH
S 703	013-6312-50	SWITCH
S 704	013-6312-50	SWITCH
S 705	013-6312-50	SWITCH
S 706	013-6507-50	LUMI SWITCH
S 707	013-6312-50	SWITCH
S 708	013-6312-50	SWITCH
S 709	013-6507-50	LUMI SWITCH
S 710	013-6507-50	LUMI SWITCH
S 711	013-6312-50	SWITCH
S 712	013-6507-50	LUMI SWITCH
S 714	013-6312-50	SWITCH
S 715	013-6507-50	LUMI SWITCH
S 716	013-6312-50	SWITCH
S 718	013-6312-50	SWITCH
S 719	013-6312-50	SWITCH
S 720	013-6312-50	SWITCH
S 721	013-6511-50	LUMI SWITCH
S 722	013-6312-50	SWITCH
IR 701	060-4017-90	IR-RECIEVER

ISO PWB section (B3)

REF No.	PART No.	DESCRIPTION
903	074-1285-00	ISO
FUSE	060-0057-57	15A

BLOCK DIAGRAM

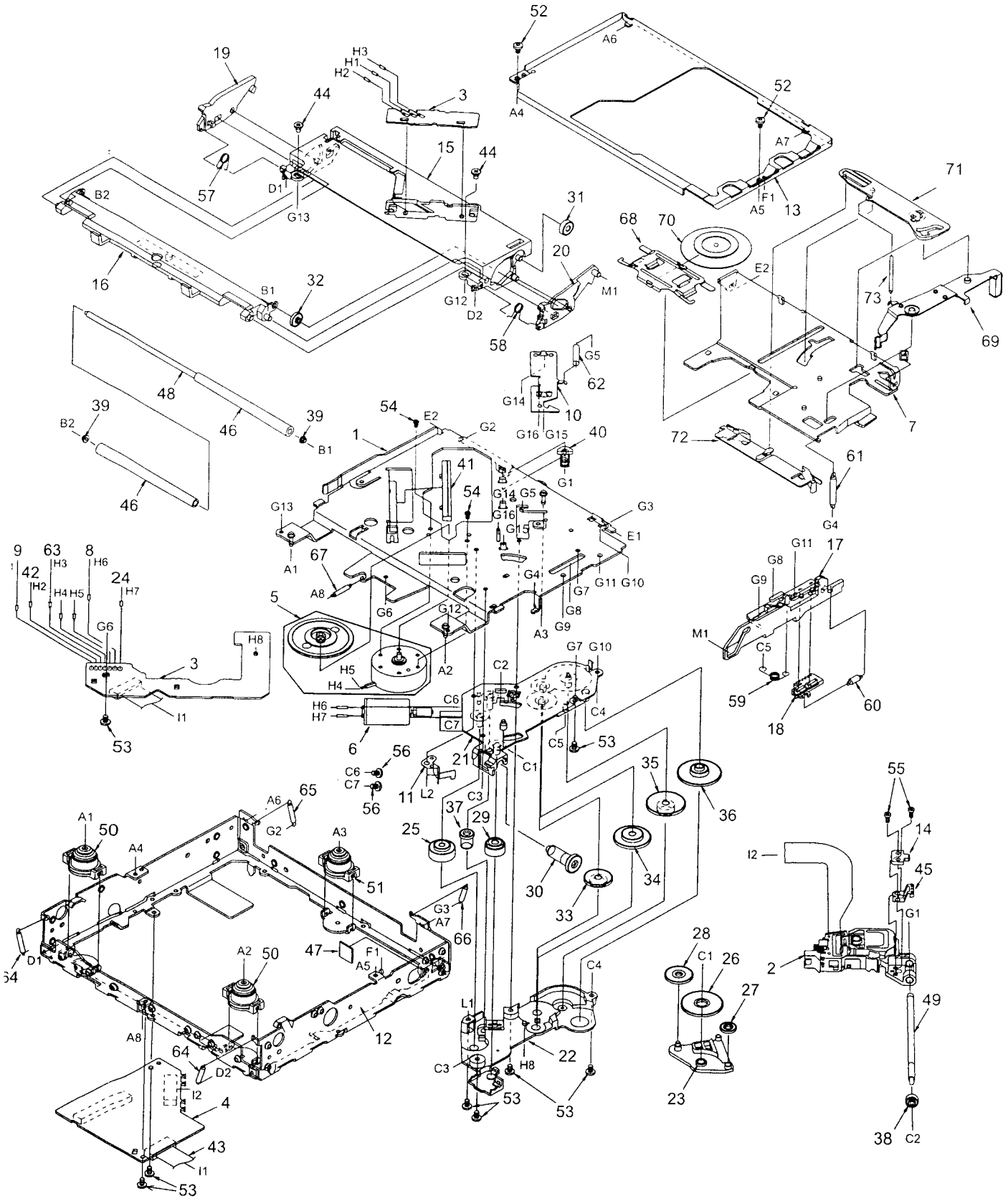
CD mechanism section 929-0221-80



DXZ538R

EXPLODED VIEW:

CD mechanism section 929-0221-80



PARTS LIST:

CD mechanism section 929-0221-80

NO.	PARTS NO.	DESCRIPTION	QTY
1	966-0595-25	DRIVE PLATE ASSY	1
2	969-0065-30	PICK UP UNIT	1
3	039-1944-21	LED PWB (WITHOUT COMPONENT)	1
4	039-1945-20	CD PWB (WITHOUT COMPONENT)	1
5	SMA-182-100	MOTOR ASSY(SPINDLE)	1
6	SMA-183-100	MOTOR ASSY(SLED)	1
7	620-1022-24	CLAMPER LINK	1
8	803-4906-60	VINYL COAT WIRE(ORG)	1
9	816-2591-00	LEAD WIRE(YEL)	1
10	620-1025-22	ID-LOCK PLATE	1
11	620-1026-21	SPRING PLATE	1
12	620-1027-25	LOWER CHASSIS	1
13	620-1028-22	UPPER CHASSIS	1
14	966-0638-20	SH-RACK-ASSY	1
15	621-0598-26	UPPER GUIDE	1
16	621-0599-25	ROLLER GUIDE	1
17	621-0600-25	SHIFT LEVER	1
18	621-0601-21	RACK	1
19	621-0602-22	LOCK ARM(L)	1
20	621-0603-25	LOCK ARM(R)	1
21	621-0604-22	GEAR BASE	1
22	621-0605-22	GEAR COVER	1
23	621-0606-21	IDLE CASE	1
24	816-2590-00	VINYL COAT WIRE(GRN)	1
25	621-0608-21	SECOND GEAR	1
26	621-0609-20	BASE GEAR	1
27	621-0610-20	IDLE GEAR A	1
28	621-0611-20	IDLE GEAR B	1
29	621-0612-21	ROLLER GEAR A	1
30	621-0613-20	ROLLER GEAR B	1
31	621-0614-20	ROLLER GEAR C	1
32	621-0615-21	ROLLER GEAR D	1
33	621-0616-20	POWER GEAR A	1
34	621-0617-20	ROWER GEAR B	1
35	621-0618-20	ROWER GEAR C	1
36	621-0619-20	POWER GEAR D	1

NO.	PARTS NO.	DESCRIPTION	QTY
37	621-0620-20	THREAD GEAR A	1
38	621-0621-20	THREAD GEAR B	1
39	621-0622-21	ROLLER SLEEVE	2
40	621-0623-22	LS-HOLDER	1
41	621-0624-22	GUIDE RAIL	1
42	816-2593-00	LEAD WIRE(PUR)	1
43	816-2542-01	FLAT WIRE(10P)	1
44	716-3473-00	SCREW	2
45	621-0709-20	SH-BASE	1
46	621-0629-20	LOADING ROLLER	2
47	345-8704-20	CUSHION RUBBER	1
48	622-1571-21	ROLLER SHAFT	1
49	624-0018-01	LEAD SCREW	1
50	629-0081-20	DAMPER F	2
51	629-0082-20	DAMPER R	1
52	714-2003-81	MACHINE SCREW	2
53	716-1507-00	SCREW	8
54	716-1733-00	SCREW	2
55	716-3469-00	SCREW	2
56	716-3446-00	SCREW	2
57	750-3465-21	ROLLER SPRING(L)	1
58	750-3466-20	ROLLER SPRING(R)	1
59	750-3467-21	SHIFT SPRING	1
60	750-3468-20	RACK SPRING	1
61	750-3469-20	CLAMPER SPRING	1
62	750-3470-20	ID-LOCK SPRING	1
63	816-2592-00	LEAD WIRE(BLU)	1
64	750-3472-21	DR-SPRING F	2
65	750-3473-20	DR-SPRING RA	1
66	750-3474-20	DR-SPRING RB	1
67	750-3475-21	DR-SPRING C	1
68	620-1023-23	CLAMPER PLATE	1
69	620-1024-23	SENSOR ARM	1
70	621-0708-20	CLAMPER RING	1
71	621-0626-21	STOPPER LINK	1
72	621-0627-21	DISC STOPPER	1
73	750-3471-20	SENSOR SPRING	1

ELECTRICAL PARTS LIST :

CD mechanism section 929-0221-80

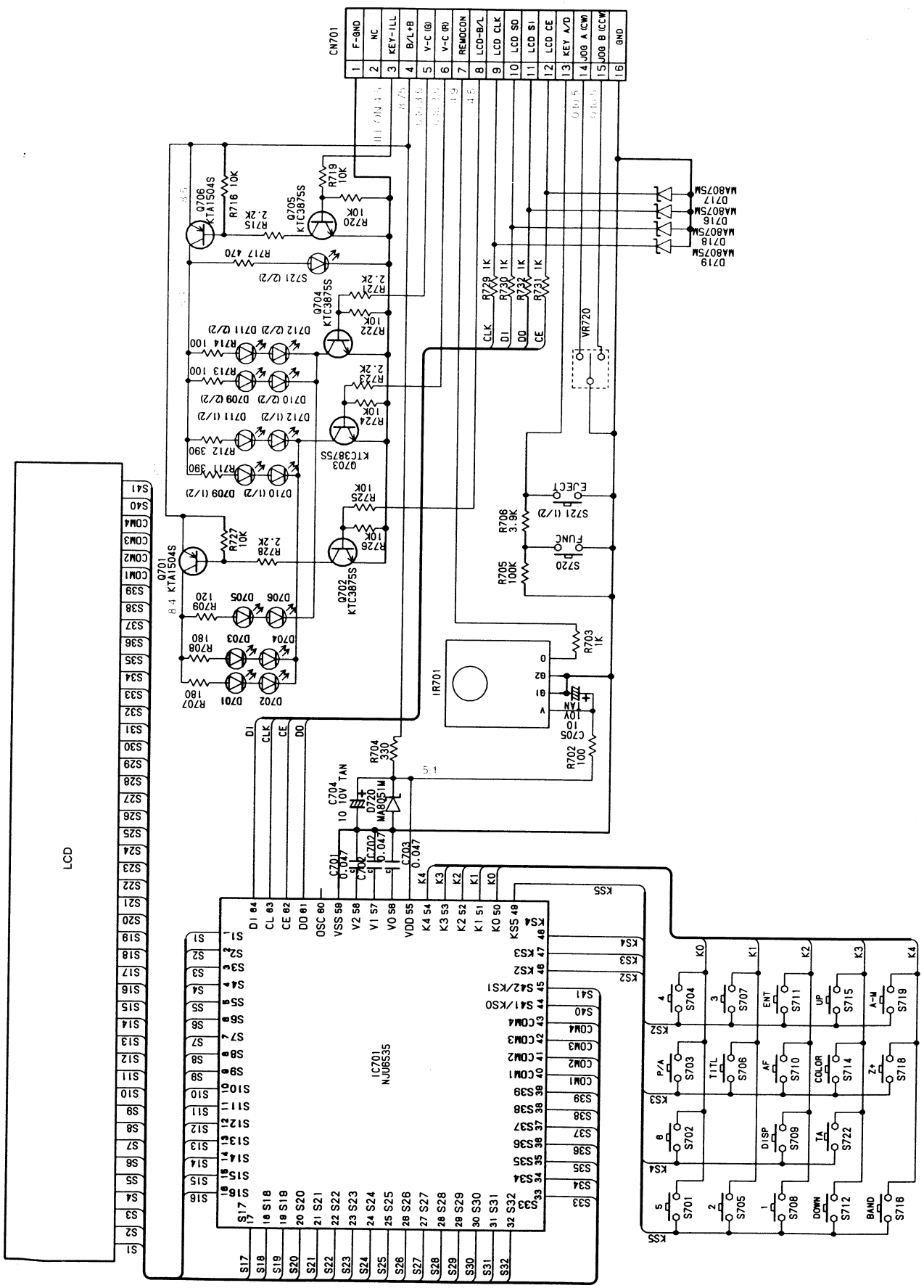
REF No.	PART No.	DESCRIPTION
C 101	168-1042-78	0.1uF
C 102	045-4701-50	47pF
C 103	046-4722-58	4700pF
C 104	168-1042-78	0.1uF
C 105	046-1532-78	0.015uF
C 106	046-1032-78	0.01uF
C 107	046-1032-78	0.01uF
C 108	046-4722-58	4700pF
C 109	046-1522-58	1500pF
C 110	046-3332-78	0.033uF
C 111	168-1042-78	0.1uF
C 112	046-3332-78	0.033uF
C 113	168-1042-78	0.1uF
C 114	168-1042-78	0.1uF
C 115	046-4712-58	470pF
C 116	046-4712-58	470pF
C 117	043-0533-50	0.047uF
C 118	043-0533-50	0.047uF
C 119	045-2701-50	27pF
C 120	045-1801-50	18pF
C 121	163-1063-35	16V 10uF
C 122	178-1052-78	1uF
C 123	046-1032-78	0.01uF
C 124	163-1073-05	4V 100uF
C 125	168-1042-78	0.1uF
C 126	168-1042-78	0.1uF
C 129	178-1052-78	1uF
C 201	163-3363-05	4V 33uF
C 202	168-1042-78	0.1uF
C 203	178-1052-78	1uF
C 204	163-1073-05	4V 100uF
C 205	163-3363-05	4V 33uF
C 206	168-1042-78	0.1uF
C 207	043-0533-50	0.047uF
C 208	046-6822-58	6800pF

REF No.	PART No.	DESCRIPTION
C 209	168-1042-78	0.1uF
C 210	043-0533-50	0.047uF
C 211	168-1042-78	0.1uF
C 212	168-1042-78	0.1uF
C 213	045-5096-50	5pF
C 214	045-5601-50	56pF
C 215	043-0533-50	0.047uF
C 216	178-1052-78	1uF
C 217	045-1011-50	100pF
C 301	163-1073-35	16V 100uF
C 302	168-1042-78	0.1uF
C 303	043-0533-50	0.047uF
D 201	001-0516-90	MA111
IC 101	051-6376-00	TC94A14FA
IC 102	051-3279-90	BA033LBSG
IC 201	051-5710-90	TA2157F
IC 301	051-6049-08	BA5983FP-E2
J 101	074-1228-76	26P
J 201	074-1138-65	15P
J 301	074-1138-60	10P
L 101	010-2285-57	BLM21B102SPT
L 102	010-2285-57	BLM21B102SPT
L 103	010-2285-57	BLM21B102SPT
L 104	010-2285-57	BLM21B102SPT
L 105	010-2285-57	BLM21B102SPT
L 401	010-3050-93	10uH
Q 201	131-1188-50	2SB1188
R 102	033-5621-15	1/16W 5.6k ohm
R 104	033-4731-15	1/16W 47k ohm
R 105	033-1041-15	1/16W 100k ohm
R 108	033-1531-15	1/16W 15k ohm
R 109	033-1031-15	1/16W 10k ohm
R 110	033-1051-15	1/16W 1M ohm
R 111	033-3321-15	1/16W 3.3k ohm
R 114	033-2211-15	1/16W 220 ohm

REF No.	PART No.	DESCRIPTION
R 115	033-2211-15	1/16W 220 ohm
R 116	033-1031-15	1/16W 10k ohm
R 117	033-1021-15	1/16W 1k ohm
R 131	033-4711-15	1/16W 470 ohm
R 132	033-2211-15	1/16W 220 ohm
R 201	117-2201-15	1/10W 22 ohm
R 202	117-2201-15	1/10W 22 ohm
R 203	033-1041-15	1/16W 100k ohm
R 204	033-1041-15	1/16W 100k ohm
R 205	033-1541-15	1/16W 150k ohm
R 206	033-1541-15	1/16W 150k ohm
R 207	033-1041-15	1/16W 100k ohm
R 208	033-8231-15	1/16W 82k ohm
R 209	033-6811-15	1/16W 680 ohm
R 210	033-6831-15	1/16W 68k ohm
R 211	033-1831-15	1/16W 18k ohm
R 212	033-2721-15	1/16W 2.7k ohm
R 213	033-1011-15	1/16W 100 ohm
R 214	033-1021-15	1/16W 1k ohm
R 215	033-1031-15	1/16W 10k ohm
R 217	033-1041-15	1/16W 100k ohm
R 218	033-2211-15	1/16W 220 ohm
R 301	117-6811-15	1/16W 680 ohm
R 304	033-3921-15	1/16W 3.9k ohm
R 305	033-3921-15	1/16W 3.9k ohm
R 306	033-1041-15	1/16W 100k ohm
R 307	033-2211-15	1/16W 220 ohm
X 102	060-1528-90	16.934M
D 1	001-7058-90	AN1105W-RR
D 2	001-7058-90	AN1105W-RR
J 1	074-1138-60	10P
Q 1	060-4015-90	PS1192H
Q 2	060-4015-90	PS1192H
S 1	013-7414-50	CHUCKING
S 2	013-7413-50	LIMIT

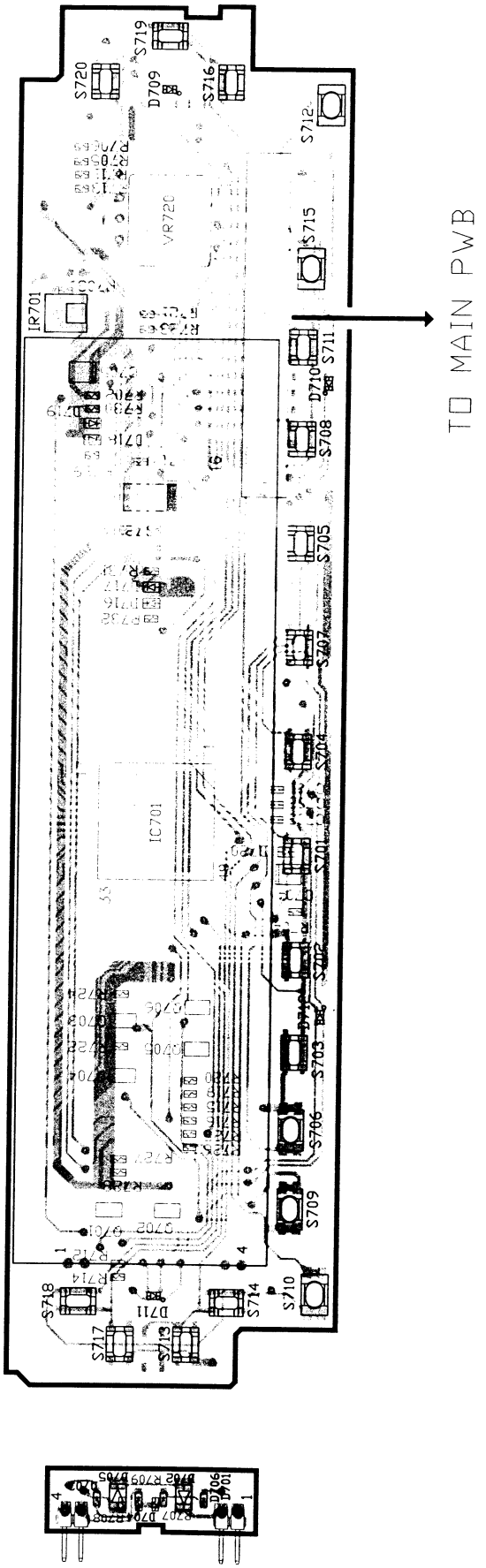
CIRCUIT DIAGRAM:

Switch PWB (B2) section



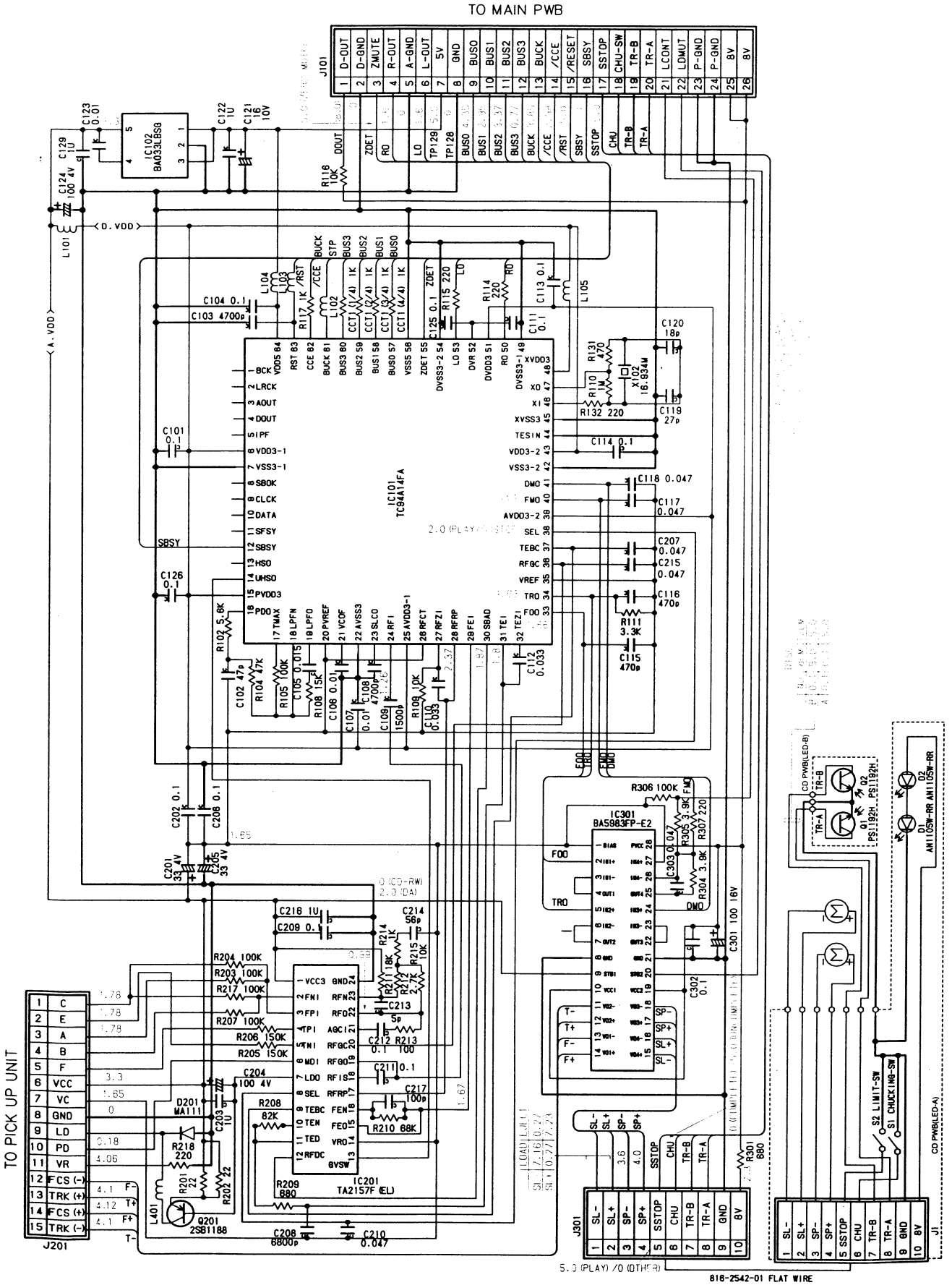
PRINTED WIRING BOARD :

Switch PWB (B2) section



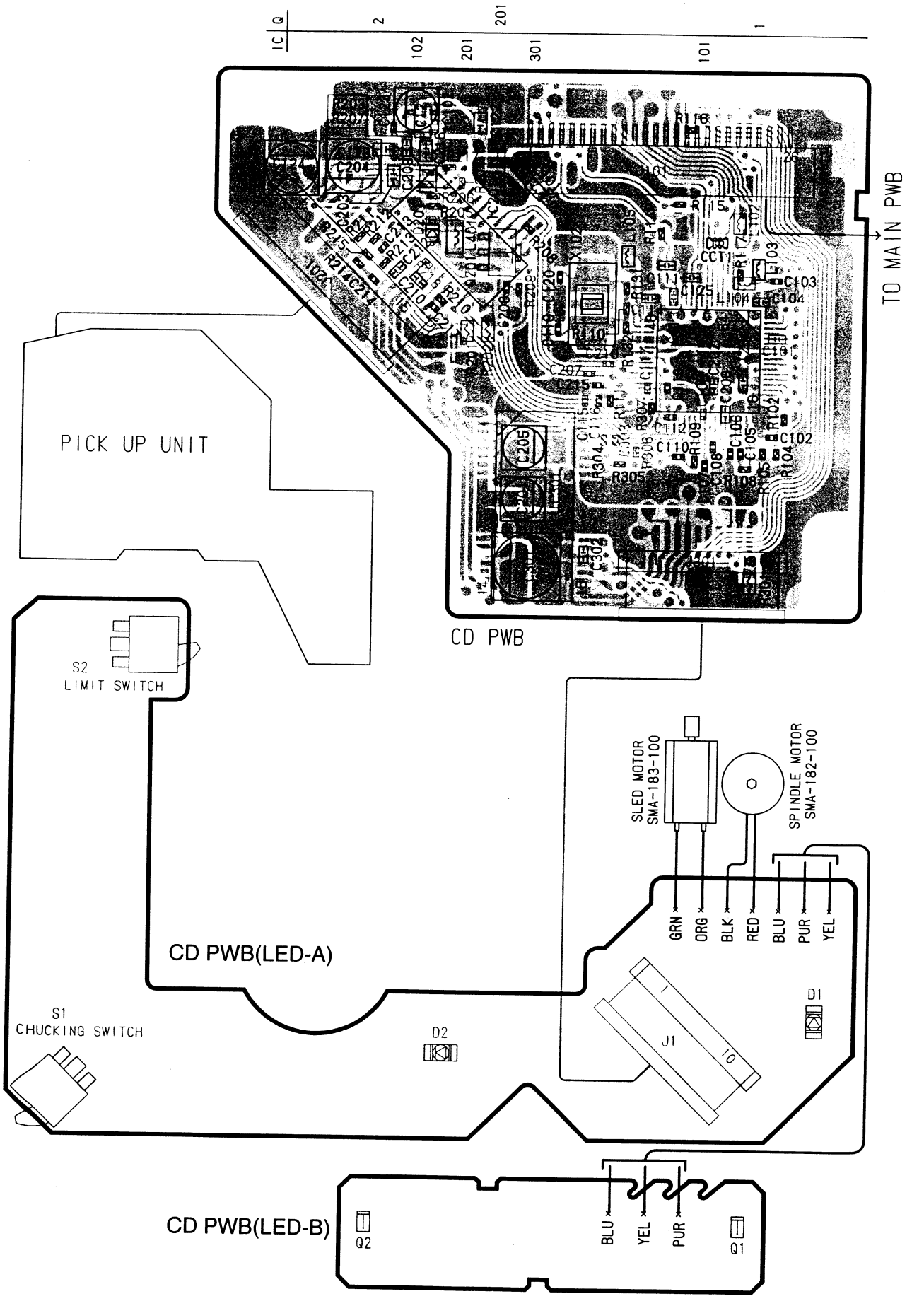
CIRCUIT DIAGRAM :

CD mechanism section 929-0221-80



PRINTED WIRING BOARD :

CD mechanism section 929-0221-80

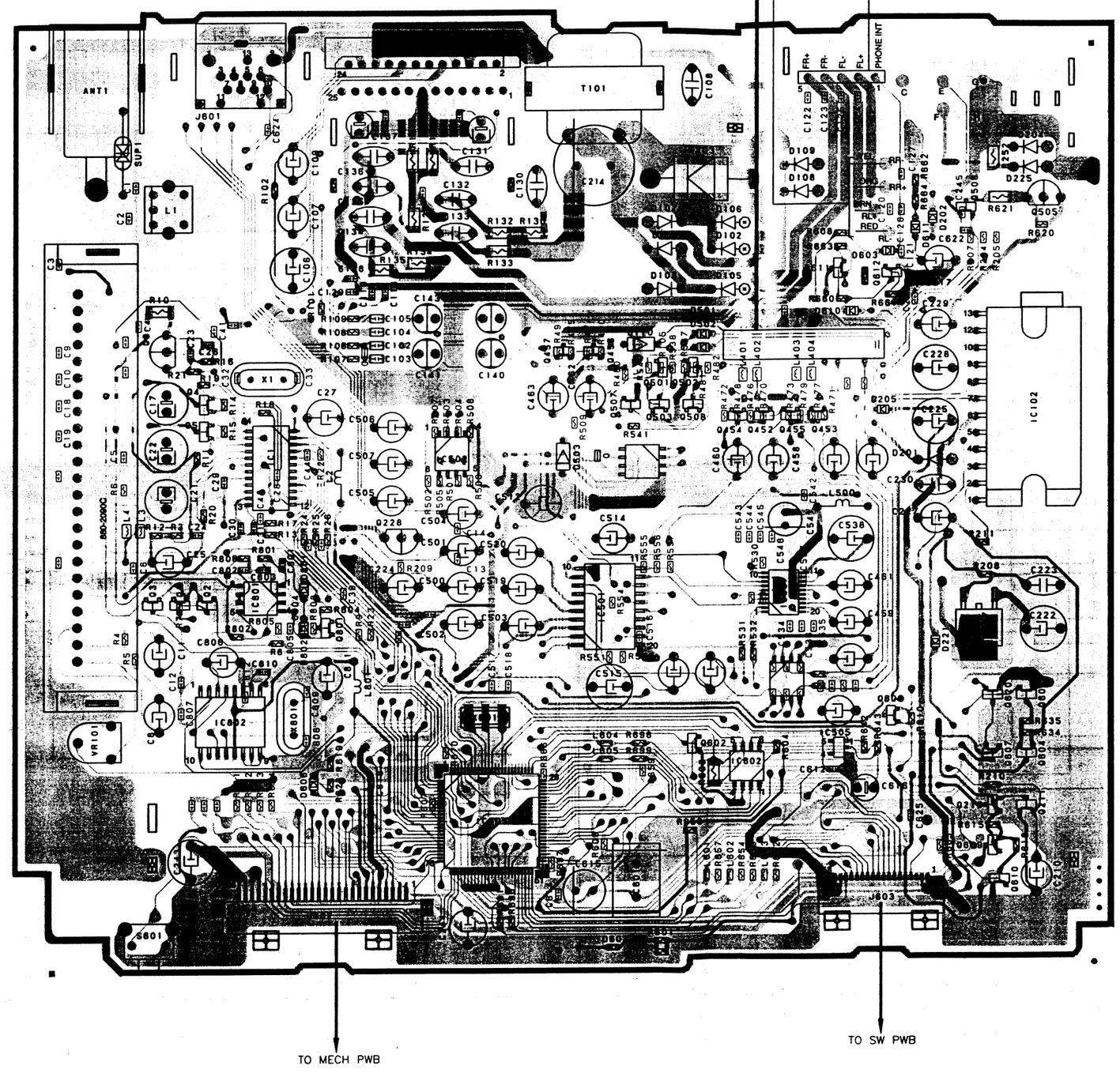


PRINTED WIRING BOARD:

Main PWB (B1) /ISO PWB(B3) section

Marks ● and marks GND are on the ground of the DIP layer.

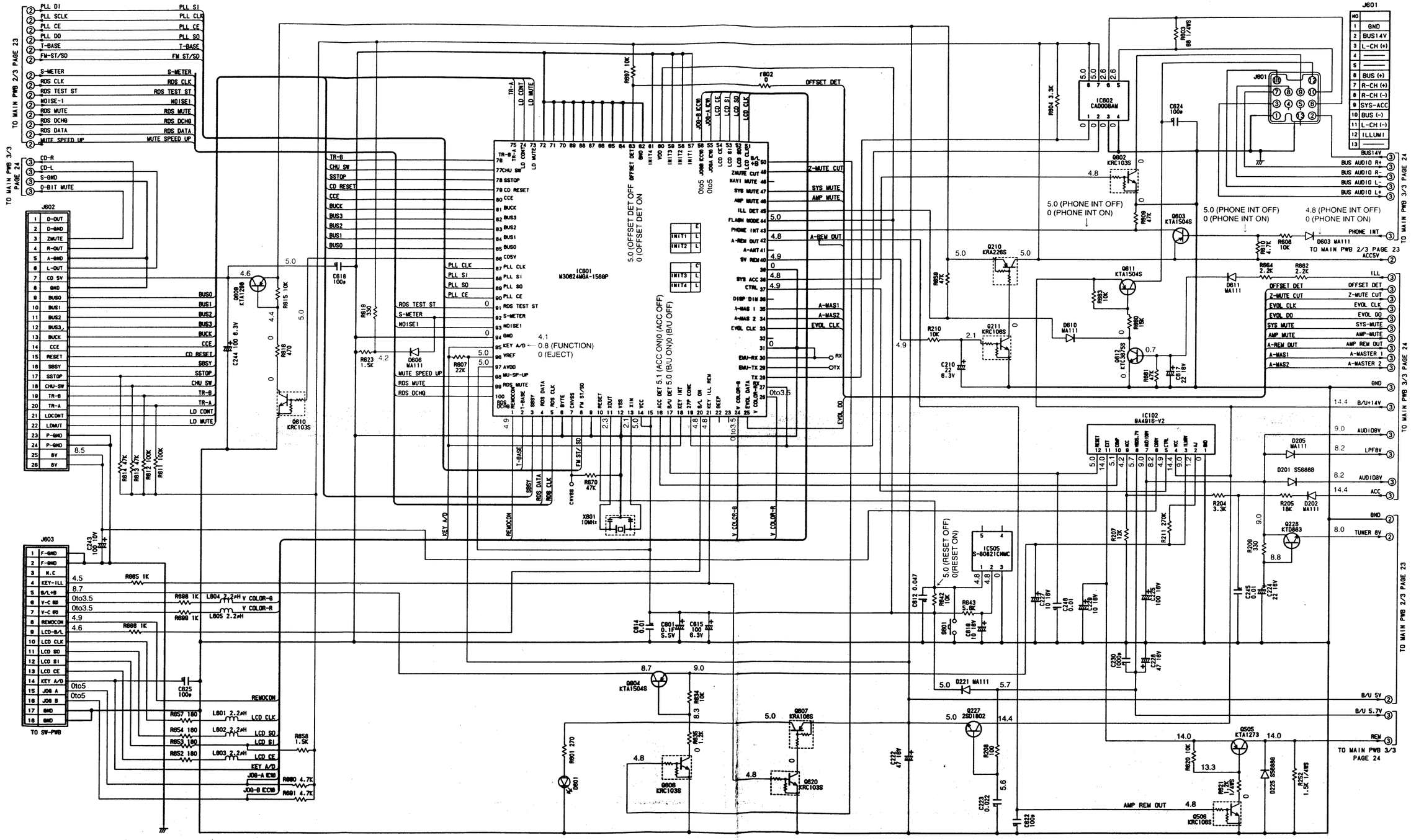
Q	IC
	IC101
Q505 Q506	
Q611 Q612	
Q6 Q457 Q456	
Q501 Q502 Q4 Q507 Q503 Q508 Q5 Q454 Q452 Q455 Q453	IC102 IC1 IC502
Q228	
Q1 Q2 Q3	IC801 IC501 IC507
Q601 Q227	
Q620 Q606 Q603	
Q602 Q607 Q604	IC802 IC505 IC602
Q210 Q211	IC601
Q609	
Q610	



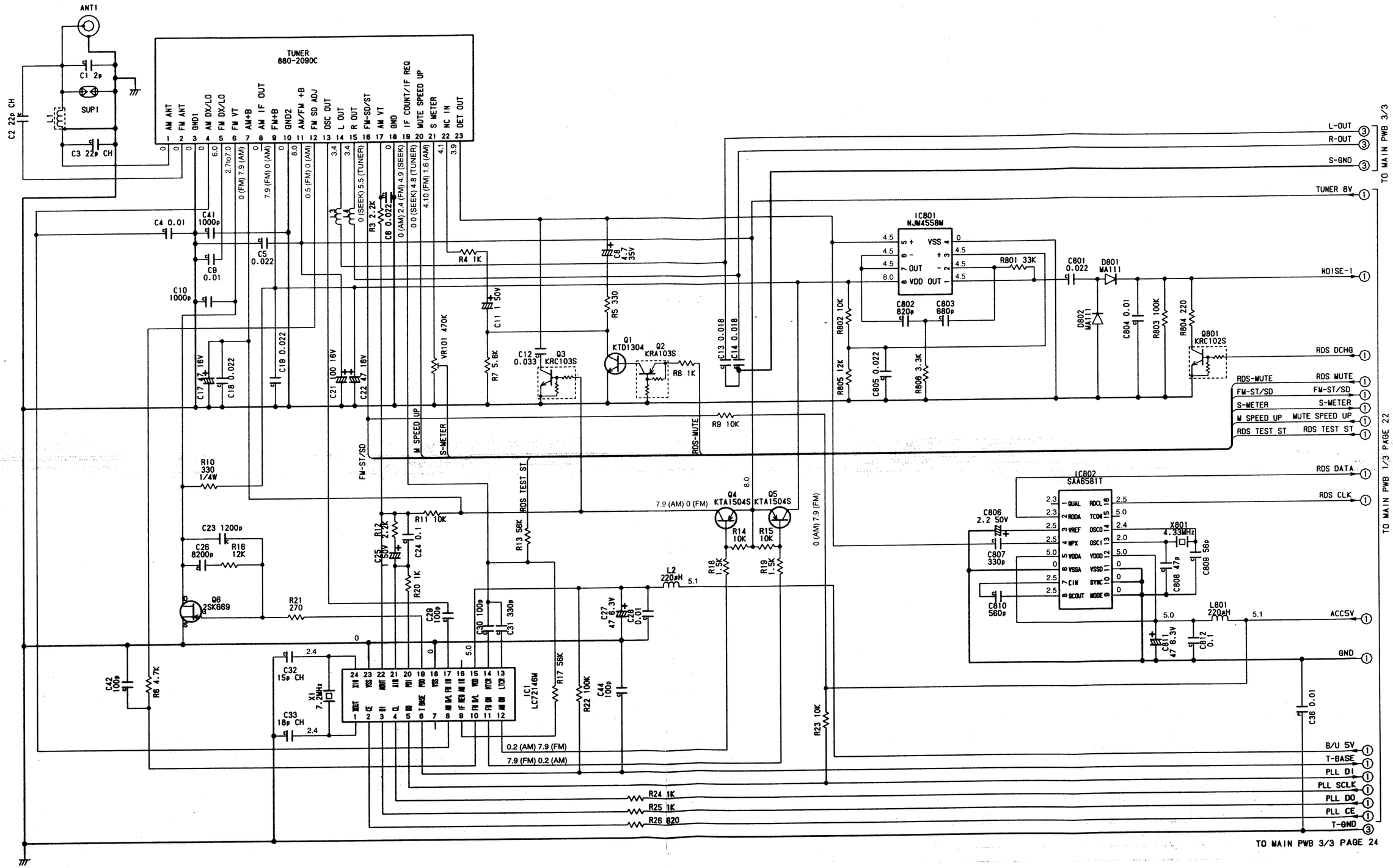
CIRCUIT DIAGRAM:

Main PWB (B1) section 1/3

*REF No. with "r(small letter)" like "r602" means a jumper wire.



CIRCUIT DIAGRAM:
Main PWB (B1) section 2/3



CIRCUIT DIAGRAM:

Main PWB (B1) section 3/3 *REF No. with "r(small letter)" like "r552" means a jumper wire.